

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Outline: INTRODUCTION TO OPERATING SYSTEMS
Code No.: EDP 111
Program: PROGRAMMER
Semester: TWO
Date: JANUARY, 1988
Author: R.D. LAILEY

New: _____ Revision: _____ X

APPROVED: 
Chairperson

88-01-08
Date

INTRODUCTION TO OPERATING SYSTEMS

EDP 111

Course Name

Course Number

Prerequisite: EDP 100 Introduction to Data Processing

AIMS AND OBJECTIVES:

This course covers a number of topics related to the commands and utilities which are normally available to users in a modern multi-user operating system. In order to provide direct hands-on experience, the major focus will be the VAX/VMS operating system. At the start of the course a number of elementary VAX hardware features will be examined. Knowledge of these features will be useful when the features of VAX/VMS are examined later in the course.

Text:

Introduction to VAX/VMS, by Shannon; Professional Press

STUDENT EVALUATION:

Tests and Quizzes	-	75%
Assignments	-	20%
Participation	-	5%
		<hr/>
		100%

GRADING:

A+	-	90-100%
A	-	80- 89%
B	-	66- 79%
C	-	55- 65%
R	-	0- 54%

NOTES:

1. Tests may include both written and practical on-line material. Time taken to complete assigned problems may be an evaluation factor.
2. Quizzes may be conducted without advance warning.
3. Assignments or projects received after the due date are subject to a grade of zero.
4. All assignments and projects must be completed satisfactorily by the date of the final test in order to fully meet the requirements of the course. Failure to do so may result in an "R" grade.
5. Students who do not write tests and quizzes at the time they are given may be allowed to upgrade their mark at the end of the semester. A written excuse acceptable to the instructor may be required.
6. Students whose final grade is below 55% may be allowed to upgrade their marks provided:
 - the student has not failed/missed all previous tests
 - attendance has been greater than 75%
 - all assignments/projects have been satisfactorily completed
7. Upgrading work is at the discretion of the instructor and may include any or all of the following:
 - a test covering specific course modules
 - an exam covering the entire course material
 - additional assignments

MODULE 1 - UNDERSTANDING THE USER ENVIRONMENT:

- Text - Hardware sub-systems
- CH.1 - VMS software types - Command Language/Utilities
- Process concepts and characteristics
- Job concepts and characteristics
- Network concepts and characteristics

MODULE 2 - SIMPLE USAGE OF VMS INTERACTIVE FEATURES:

- Text - Log-in/Log-out - security
- CH.2 - DCL - simple jobs
- Error messages
- DCL - Command Line Editing - Function Keys
- VMS - Help and Documentation re VMS commands & error messages
- System process and terminal information

MODULE 3 - UTILIZING THE EDT EDITOR:

- CH. 6 - Creating and modifying text files
- EDT features
- File recovery
- Other VMS editors

MODULE 4 - FILE MANAGEMENT IN VMS:

- CH. 3 - File naming convention
- Managing files in your default directory
- Protecting files in your default directory
- Organizing files using directories
- Locating files and determine characteristics
- Protecting files in a directory hierarchy
- CH. 4 - Specifying devices
- Device independence with logical names
- Manipulating files between directories and devices
- Disk and tape protection

MODULE 5 - IMPROVING THE USER ENVIRONMENT:

- CH. 4 - Defining terminal keys
- Defining and using logical names
- Defining and using symbols

MODULE 6 - AIDS TO PROGRAM DEVELOPMENT:

- APPENDIX "A" - VMS tools used in program development
- Steps in program development
 - Utilizing the DEBUG facility
 - Utilizing VMS commands - to print a file
 - to submit a batch job

MODULE 7 - WRITING COMMAND PROCEDURES:

- CH. 5 - Developing a command procedure
- Creating your own LOGIN procedure
 - Controlling I/O in a command procedure
 - Creating and accessing sequential files
 - Using symbols in a command procedure
 - Using lexical functions in a command string or command procedure
 - Blanking, calling, delaying, etc.
 - Error handling
 - Applying programming standards to the development of command procedures

MODULE 8 - VMS UTILITIES AND FACILITIES:

- CH. 8 - Utilizing the error message and Help facilities
- Utilizing the MAIL utility
 - Utilizing the SORT utility

MODULE 9 - VAX/VMS SECURITY FEATURES:

- APPENDIX "B" - Importance of system security
- Overview of security features